



US005759370A

United States Patent [19]

[11] **Patent Number:** **5,759,370**

Pawliszyn

[45] **Date of Patent:** **Jun. 2, 1998**

[54] **METHOD AND DEVICE FOR ISOELECTRIC FOCUSING WITHOUT CARRIER AMPHOLYTES**

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[21] **Appl. No.:** **309,595**

[22] **Filed:** **Mar. 24, 1995**

[57] **ABSTRACT**

Related U.S. Application Data

A device and method for isoelectric focusing of ampholytes in a buffer uses a cone-shaped capillary with a positive electrode connected at a narrow end and a negative electrode connected at the wide end of the capillary. The electrical potential across the buffer creates a temperature gradient which, in turn, creates a pH gradient. The electric current also creates an electric field gradient which focuses the ampholytes. Previous devices and methods use carrier ampholytes or use temperature baths to create a temperature gradient.

[63] Continuation-in-part of Ser. No. 26,635, Mar. 5, 1993, abandoned.

[51] **Int. Cl.⁶** **C25B 9/00**

[52] **U.S. Cl.** **204/459**; 204/451; 204/601; 204/610

[58] **Field of Search** 204/459, 610, 204/601, 451

[56] **References Cited**

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28 Claims, 7 Drawing Sheets